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ĄI	PPLICATION NO.	-	FILING DATE	1	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
	10/724,705		12/02/2003	- 1	Kamyar Ghandi	10722-007002	1965
	26171	7590	05/24/2004	-	* *	EXAMINER	
	FISH & RICHARDSON P.C. 1425 K STREET, N.W.					DOUGHERTY, THOMAS M	
	11TH FLOOR					.: ART UNIT	PAPER NUMBER
	WASHINGTO	N, D	C 20005-3500		0.*	2834	
	•		•		*	DATE MAILED: 05/24/200	4 .

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	(N
		10/724,705	GHANDI ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Thomas M. Dougherty	2834	,
Paried 6	The MAILING DATE of this communication or Reply	appears on the cover sheet with	the corresp ndenc add	dress
A SH THE - Exte after - If th - If NO - Failu Any	HORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIO ensions of time may be available under the provisions of 37 CFB r SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will; by state reply received by the Office later than three months after the material part of the provision of the provisions of the provisions of 37 CFB and provisi	N. R.1.136(a). In no event, however, may a repl reply within the statutory minimum of thirty (a iod will apply and will expire SIX (6) MONTH title cause the application to become ADAN	y be timely filed 30) days will be considered timely. S from the mailing date of this cor	mmunication.
Status			· ·	
1)🔯	Responsive to communication(a) filed on 00) December 2000		
2a)□	Responsive to communication(s) filed on <u>02</u> This action is FINAL . 2b)⊠ T	his action is non-final.		
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. 7,0	Since this application is in condition for allow closed in accordance with the practice under	rance except for formal matters	s, prosecution as to the	merits is
		Lx parte Quayle, 1955 C.D. 1	1, 453 O.G. 213.	
Dispositi	on of Claims		*	
4)🛛	Claim(s) 1-10 is/are pending in the application	on.	*	
	4a) Of the above claim(s) is/are withd			
5)	Claim(s) is/are allowed.		* "	
6)⊠	Claim(s) 1-9 is/are rejected.		*	
7)[🛛	Claim(s) 10 is/are objected to.			
8)	Claim(s) are subject to restriction and	/or election requirement.		
•		×		
	on Papers			g .
	The specification is objected to by the Examii			
10)🖾 🗆	The drawing(s) filed on <u>02 December 2003</u> is	/are: a) accepted or b) ob	jected to by the Examin	ier.
	Applicant may not request that any objection to th	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) i	s objected to. See 37 CFR	1.121(d).
11) 🔲 7	The oath or declaration is objected to by the I	Examiner. Note the attached Of	fice Action or form PTO	-152.
	nder 35 U.S.C. § 119			
			, .	
عالاء	Acknowledgment is made of a claim for foreig ☐ Allb)	in priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
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	2. Certified copies of the priority documer	nts have been received in Appli	cation No	
•	3. Copies of the certified copies of the pri	ority documents have been rec	eived in this National St	age
* 0.	application from the International Burea		•	1
36	ee the attached detailed Office action for a lis	t of the certified copies not rece	eived.	
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) 🔼 Notice) 🗌 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ		
) Niforma	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s)/Ma 5) Notice of Inform	il Date al Patent Application (PTO-15	52)
	No(s)/Mail Date <u>1203</u> .			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no proper antecedent basis for citation of "members" and further this term is not defined as to clearly establish what it represents. The description of "each transducer defines a coupler" in claim 4 is confusing. Claim 3 notes a "member coupling" but this member couples the transducers and the additional citing of the "coupler" in claim 4 that is distinct from that of claim 3 is confusing. Thus in claim 5 it is not known which coupler is referred to, either the "transducer [which] defines a coupler" of claim 4, or the "member coupling". Claims 5-7 depend on claim 4.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 8 and 9 (as best understood) are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi et al. Takahashi et al. show (figs. 3, 4 and 13) a method of extracting electrical energy from mechanical motion comprising: reusing an elastic

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portion of energy in a transducer by transferring the elastic portion of energy to another transducer. Note in figure 4 for example that deflection of either 22a or 22b results in deflection of the other.

Takahashi et al. show (fig. 4, 13) an apparatus for extracting electrical energy from mechanical motion, comprising: at least two transducers (22a, 22b) coupled together such that an elastic portion of energy in one transduc3er is transferable to the other transducer.

A member (e.g. screw 27) couples the transducers.

The transducers (22a, 22b) are coupled to a plate (26).

The plate (26) is positioned between members (22a, 22b) such that the plate (26) is deformed.

Allowable Subject Matter

Claims 4-7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claim 10 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to show or fairly suggest a waved-surface coupling member between transducer members and in contact with them and positioned so as to be moved relatively to them for extraction of electrical energy.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The remaining prior art cited reads on at least some claimed aspects of the invention.

Direct inquiry concerning this action to Examiner Dougherty at (571) 272-2022.

May 17, 2004

THOMAS M. DOUGHEPA

GROUP 2100